For each problem below:

1. Write the vertex matrix for the given figure AND its transformed image
2. Write the algebraic (arrow) rule for the given transformation
3. Graph the original image AND the transformed image on graph paper
4. ΔSTU with S(1, 2), T(4, 3), and U(5, -3); translate left 4 and up 3.
5. ΔKLM with K(1, -3), L(4, 1), and M(7, 2); translate left 5.
6. Parallelogram ABCD with A(-4, -3), B(-1, 4), C(5, 6) and D(2, -1); translate right 2 and

down 4.

1. Rectangle PQRS with P(4, 0), Q(3, -3), R(-3, -1) and S(-2, 2); translate left 2 and up 1.
2. Parallelogram RSTU with R(-4, -2), S(-3, 1), T(3, 4) and U(2, 1); translate right 4 and down 3.
3. Make up your own translation problem similar to #’s 1-5. Perform steps a, b, and c for your problem.